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1 The priority-based coloring approach to register allocation

Fred C. Chow, John L. Hennessy

October 1990 ACM Transactions on Programming Languages and Sys Volume 12 Issue 4

Publisher: ACM Press

Full text available: Additional Information: full citation, abst MB)

citings, index ten

Global register allocation plays a major role in determining the efficacy compiler. Graph coloring has been used as the central paradigm for regis modern compilers. A straightforward coloring approach can suffer from shortcomings. These shortcomings are addressed in this paper by colorin priority ordering. A natural method for dealing with the spilling emerges The detailed algorithms for a priority-based colori ...

2 Parallel execution of prolog programs: a survey

Gopal Gupta, Enrico Pontelli, Khayri A.M. Ali, Mats Carlsson, Manuel V. July 2001 ACM Transactions on Programming Languages and System Volume 23 Issue 4

Publisher: ACM Press

Full text available: Additional Information: full citation, abst

MB)

citings, index teri

Since the early days of logic programming, researchers in the field realiz exploitation of parallelism present in the execution of logic programs. The nature, the presence of nondeterminism, and their referential transparence characteristics, make logic programs interesting candidates for obtaining parallel execution. At the same time, the fact that the typical applications programming frequently involve irregular computatio ...

Keywords: Automatic parallelization, constraint programming, logic proparallelism, prolog

3 Compiler transformations for high-performance computing

David F. Bacon, Susan L. Graham, Oliver J. Sharp

December 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 4 **Publisher:** ACM Press

Full text available: pdf(6.32 Additional Information: full citation, abst citings, index ten

In the last three decades a large number of compiler transformations for programs have been implemented. Most optimizations for uniprocessors of instructions executed by the program using transformations based on a scalar quantities and data-flow techniques. In contrast, optimizations for superscalar, vector, and parallel processors maximize parallelism and metransformations that rely on tracking the properties o ...

Keywords: compilation, dependence analysis, locality, multiprocessors, parallelism, superscalar processors, vectorization

4 An abstract machine for tabled execution of fixed-order stratified logic pro

Konstantinos Sagonas, Terrance Swift

May 1998 **ACM Transactions on Programming Languages and System** Volume 20 Issue 3

Publisher: ACM Press

Full text available: pdf(602.38 Additional Information: full citation, abst KB) citings, index ten

SLG resolution uses tabling to evaluate nonfloundering normal logic prother well-founded semantics. The SLG-WAM, which forms the engine of can compute in-memory recursive queries an order of magnitute faster the deductive databases. At the same time, the SLG-WAM tightly intergrate tabled SLG code, and executes Prolog code with minimal overhead compass a result, the SLG-WAM brings to logic program.

Keywords: SLG, WAM, memoing, prolog, stratification theories, tablin

5 Register integration: a simple and efficient implementation of squash reuse

Amir Roth, Gurindar S. Sohi

December 2000 Proceedings of the 33rd annual ACM/IEEE internation Microarchitecture

Publisher: ACM Press

Full text available: Pdf(154.98

<u>KB</u>) **©** ps (573.81 KB) **©** Publisher

Additional Information: full citation, refer

index terms

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6 Sentinel scheduling: a model for compiler-controlled speculative execution

Scott A. Mahlke, William Y. Chen, Roger A. Bringmann, Richard E. Hank Hwu, B. Ramakrishna Rau, Michael S. Schlansker

November 1993 ACM Transactions on Computer Systems (TOCS), Vo Publisher: ACM Press

Full text available: Pdf(2.26 Additional Information: full citation, abst citings, index term

Speculative execution is an important source of parallelism for VLIW ar processors. A serious challenge with compiler-controlled speculative exe efficiently handle exceptions for speculative instructions. In this article, a features and compile-time scheduling support collectively referred to as is introduced. Sentinel scheduling provides an effective framework for b controlled speculative executi ...

Keywords: VIIW processor, exception detection, exception recovery, in

Results (page 1): +store +restore +instructions +register +deter... Page 4 of 10

scheduling, instruction-level parallelism, speculative execution, supersca

7 Register renaming and dynamic speculation: an alternative approach
Mayan Moudgill, Keshav Pingali, Stamatis Vassiliadis
December 1993 Proceedings of the 26th annual international symposium Microarchitecture

Publisher: IEEE Computer Society Press

Full text available: pdf(1.49

MB)

Additional Information: full citation, refe

- 8 Implementation of precise interrupts in pipelined processors
- James E. Smith, Andrew R. Pleszkun
 June 1985 ACM SIGARCH Computer Architecture News, Proceeding
 annual international symposium on Computer architecture
 13 Issue 3

Publisher: IEEE Computer Society Press, ACM Press

Full text available: pdf(893.17 KB) Additional Information: full citation, citir

- 9 Experience with a software-defined machine architecture
- a David W. Wall

May 1992 **ACM Transactions on Programming Languages and System**Volume 14 Issue 3

Publisher: ACM Press

Full text available: pdf(2.86 Additional Information: full citation, abst citings, index ten

We have built a system in which the compiler back end and the linker we present an abstract machine at a considerably higher level than the actual intermediate language translated by the back end is the target language of compilers and is also the only assembly language generally available. The intermodule register allocation, which would be harder if some of the cohad come from a traditional assembler, out of sight of ...

Keywords: RISC, graph coloring, intermediate language, interprocedura pipeline scheduling, profiling, register allocation, register windows

10 The MC88110 implementation of precise exceptions in a superscalar archit

Nasr Ullah, Matt Holle

March 1993 **ACM SIGARCH Computer Architecture News**, Volume 2 **Publisher:** ACM Press

Full text available: Pdf(1.06 Additional Information: full citation, abst terms

This paper describes the precise exception model of the MC88110 symm microprocessor. The MC88110 is a superscalar, pipelined processor that exection units and allows out-of order execution of instructions. The MC fully precise exceptions and presents the architecturally correct state to a handling routine in a manner that minimizes exception response latency. latency timings in the MC88110 are described, and several ...

- 11 Exploiting instruction level parallelism in processors by caching scheduled
- Ravi Nair, Martin E. Hopkins

May 1997 ACM SIGARCH Computer Architecture News, Proceeding annual international symposium on Computer architecture 25 Issue 2

Publisher: ACM Press

Full text available: pdf(2.01 Additional Information: full citation, abst citings, index ten

Modern processors employ a large amount of hardware to dynamically d single-threaded programs and maintain the sequential semantics implied. The complexity of some of this hardware diminishes the gains due to par longer clock period or increased pipeline latency of the machine. In this processor implementation which dynamically schedules groups of instruence executing them on a fast simple engine and caches them f...

- 12 Compiler techniques for code compaction
- Saumya K. Debray, William Evans, Robert Muth, Bjorn De Sutter March 2000 ACM Transactions on Programming Languages and Syste Volume 22 Issue 2

Publisher: ACM Press

Full text available: pdf(409.20 Additional Information: full citation, abst KB) citings, index ten

In recent years there has been an increasing trend toward the incorpor ati into a variety of devices where the amount of memory available is limite desirable to try to reduce the size of applications where possible. This are use of compiler techniques to accomplish code compaction to yield small main contribution of this article is to show that careful, aggressive, interpoptimization, together with procedural abstr ...

Keywords: code compaction, code compression, code size reduction

13 VLIW compilation techniques in a superscalar environment

Kemal Ebcioglu, Randy D. Groves, Ki-Chang Kim, Gabriel M. Silberman, June 1994 ACM SIGPLAN Notices, Proceedings of the ACM SIGPLA on Programming language design and implementation PLD Issue 6

Publisher: ACM Press

Full text available: pdf(1.30 Additional Information: full citation, abst citings, index ten

We describe techniques for converting the intermediate code representate program, as generated by a modern compiler, to another representation versame run-time results, but can run faster on a superscalar machine. The anovel parallelization techniques for Very Long Instruction Word (VLIW and place together independently executable operations that may be far a code. i.e., they may be se ...

Keywords: VLIW, compiler optimizations, global scheduling, profiling software pipelining, superscalars

14 A novel renaming scheme to exploit value temporal locality through physic and unification

Stephen Jourdan, Ronny Ronen, Michael Bekerman, Bishara Shomar, Adi November 1998 **Proceedings of the 31st annual ACM/IEEE internation Microarchitecture** Publisher: IEEE Computer Society Press

Full text available: pdf(2.41 Additional Information: full citation, reference MB)

Additional Information: full citation, reference index terms

Keywords: dependency redirection, physical register reuse, register and result reuse, value temporal locality

15 Optimization for a superscalar out-of-order machine

Anne M. Holler

December 1996 Proceedings of the 29th annual ACM/IEEE internation Microarchitecture

Publisher: IEEE Computer Society

Full text available: pdf(1.55 Additional Information: full citation, abst terms

Compiler optimization plays a key role in unlocking the performance of innovative dynamically-scheduled machine which is the first implement? PA 2.0 member of the HP PA-RISC architecture family. This wide super order machine provides significant execution bandwidth and automatical runtime; however, despite its ample hardware resources, many of the opt transformations which proved effective for the PA-8000 served to au ...

16 Instruction-level reverse execution for debugging

Tankut Akgul, Vincent J. Mooney

November 2002 ACM SIGSOFT Software Engineering Notes, Proceed ACM SIGPLAN-SIGSOFT workshop on Program and tools and engineering PASTE '02, Volume 28 Issue 1

Publisher: ACM Press

Full text available: pdf(241.83 Additional Information: full citation, abst KB) citings, index ten

The ability to execute a program in reverse is advantageous for shortening paper presents a reverse execution methodology at the assembly instruct memory and time overheads. The core idea of this approach is to generate able to undo, in almost all cases, normal forward execution of an assembly program being debugged. The methodology has been implemented on a

in a custom made debugger. Compared to previous w ...

Keywords: debugging, reverse code generation, reverse execution

17 Software pipelining

Vicki H. Allan, Reese B. Jones, Randall M. Lee, Stephen J. Allan September 1995 **ACM Computing Surveys (CSUR)**, Volume 27 Issue 3 **Publisher:** ACM Press

Full text available: pdf(4.72 Additional Information: full citation, abst citings, index ten

Utilizing parallelism at the instruction level is an important way to improbe Because the time spent in loop execution dominates total execution time optimizations focuses on decreasing the time to execute each iteration. S is a technique that reforms the loop so that a faster execution rate is reali executed in overlapped fashion to increase parallelism. Let {ABC}n Keywords: instruction level parallelism, loop reconstruction, optimization pipelining

18 <u>Multithreading and value prediction: Speculative lock elision: enabling hig multithreaded execution</u>

Ravi Rajwar, James R. Goodman

December 2001 Proceedings of the 34th annual ACM/IEEE internation Microarchitecture

Publisher: IEEE Computer Society

Full text available: Dpdf(1.37

MB) Additional Information: <u>full citation</u>, <u>abst</u>

<u>Publisher</u> <u>citings</u>

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Serialization of threads due to critical sections is a fundamental bottlened performance in multithreaded programs. Dynamically, such serialization unnecessary because these critical sections could have safely executed colocks. Current processors cannot fully exploit such parallelism because to mechanisms to dynamically detect such false inter-thread dependences. V. Speculative Lock Elision (SLE), a novel micro-architectura ...

19 Avoidance and suppression of compensation code in a trace scheduling cor

Stefan M. Freudenberger, Thomas R. Gross, P. Geoffrey Lowney

July 1994 ACM Transactions on Programming Languages and System Volume 16 Issue 4

Publisher: ACM Press

Full text available: pdf(3.58 Additional Information: full citation, abst citings, index ten

Trace scheduling is an optimization technique that selects a sequence of trace and schedules the operations from the trace together. If an operation basic block boundaries, one or more compensation copies may be required code. This article discusses the generation of compensation code in a trace compiler and presents techniques for limiting the amount of compensation (restricting code motion so that no compensation...

Keywords: SPEC89, instruction-level parallelism, performance evaluati

20 Dynamic dead-instruction detection and elimination

🔈 J. Adam Butts, Guri Sohi

October 2002 ACM SIGOPS Operating Systems Review, ACM SIGPL SIGARCH Computer Architecture News, Proceedings o international conference on Architectural support for prolanguages and operating systems ASPLOS-X, Volume 36 10,5

Publisher: ACM Press

Full text available: Pdf(1.50 Additional Information: full citation, abst citings

We observe a non-negligible fraction--3 to 16% in our benchmarks--of a instructions, dynamic instruction instances that generate unused results. these instructions arise from static instructions that also produce useful recompiler optimization (specifically instruction scheduling) creates a sign these partially dead static instructions. We show that most of the dynamic arise from a small set of st ...

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D Scales

K Gharachorloo

P Lowney

J Larus

D Culler

Shasta: a low overhead, software-only approach for supporting fine-grain shared memory - group of 9 » DJ Scales, K Gharachorloo, CA Thekkath - Proceedings of the seventh international conference on ..., 1996 portal.acm.org

... be moved upward from the instrumentation point within ... the load when the add instruction is executed ... compiler is typically successful in scheduling the original ...

Cited by 262 - Related Articles - Web Search - BL Direct

Speculative register promotion using advanced load address table (ALAT) - group of 5 »

J Lin, T Chen, WC Hsu, PC Yew - Code Generation and Optimization, 2003. CGO 2003. ..., 2003 ieeexplore.ieee.org

... on the top of ORC to instrument the code ... flags are transformed into the corresponding assembly instructions. ... code for speculation during list scheduling as well ...

<u>Cited by 15 - Related Articles - Web Search</u>

Method of reducing the number of overhead instructions by modifying the program to locate ... - group of 3 » DJ Scales - US Patent 5,758,183, 1998 - Google Patents ... virtual addresses assigned to the memories are allocated to store a shared data structure as one or more blocks accessible by instructions of programs executing ... Cited by 33 - Related Articles - Web Search

<u>Instruction scheduling for instruction level parallel processors - group of 3 »</u>

P Faraboschi, JA Fisher, C Young - Proceedings of the IEEE, 2001 - ieeexplore.ieee.org

... it is the infamous "job shop scheduling" problem [5 ... profiles used to drive instruction

scheduling as static ... oldest technique is instrumentation, where extra ...

Cited by 19 - Related Articles - Web Search - BL Direct

Exploiting hardware performance counters with flow and context sensitive profiling - group of 11 »

G Ammons, T Ball, JR Larus - ACM SIGPLAN Notices, 1997 - portal.acm.org

... have complex microarchitectures that dy-namically schedule instructions. ... predictable metrics, such as instruction fre- quency ... the effect of instrumentation code ...

<u>Cited by 151</u> - <u>Related Articles</u> - <u>Web Search</u> - <u>BL</u> Direct

The transmeta code morphing software: Using speculation, recovery, and adaptive retranslation to ... - group of 15 »

JC Dehnert, BK Grant, JP Banning, R Johnson, T ... - International Symposium on Code Generation and Optimization, 2003 - doi.ieeecomputersociety.org ... There are scheduling constraints that must be ... emulation systems as interpreters (instruction-at-a-time ... created for purposes of optimization or instrumentation. ... Cited by 71 - Related Articles - Web Search

Validation checking of shared memory accesses - group of 2 »

DJ Scales - US Patent 5,761,729, 1998 - Google Patents ... of the programs allocates a portion ofthevirtual shared addresses to **store** a shareddata ...

miss handling code is executed before the load **instructions** are executed ... Cited by 35 - Related Articles - Web Search

Register File Design Considerations in Dynamically Scheduled Processors - group of 10 »

KI Farkas, NP Jouppi, P Chow - Proceedings of the Second IEEE Symposium on High-Performance ..., 1996 - doi.ieeecomputersociety.org

... The instruction scheduling logic includes a single dis- patch ... Instruction counts are in millions; the "rates ... ing an object code instrumentation system called ...

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DE Culler, A Sah, KE Schauser, T von Eicken, J ...
Proceedings of the fourth international conference on ...,

1991 - portal.acm.org

... the initialization thread set up to re- store them from ... the structure to reflect different scheduling policies in ... 21] an I-structure fetch instruction issues a ...

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Open research compiler (orc) 2.0 and tuning performance on itanium

R Ju, S Chan, TF Ngai, C Wu, Y Lu, J Zhang - 35th International Symposium on Microarchitecture,
December, 2002 - cs.ualberta.ca
... gap from source language to machine instructions •
Same IR ... eg MISTORE – indirect
store of memory chunk • Field ID ... Register Variable Identification II ...
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